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CLAIMS

1. An imaging device for imaging fluorescent particles dyed with a fluorescent dye, comprising:

5 an imaging container for containing the fluorescent particles collectively at the bottom;

 means for producing exciting light that excites the fluorescent particles;

 first illumination means for irradiating only a portion
10 near the bottom of the imaging container with the exciting light from a side;

 second illumination means for irradiating the bottom of the imaging container from the bottom with the exciting light;

15 switching means for switching the first and second illumination means; and

 an imaging device for imaging, from the bottom, the bottom of the imaging container illuminated by the first or second illumination means.

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2. The fluorescent particle imaging device according to claim 1, wherein the switching means is an optical element that in a first switch position guides the exciting light to a side of the imaging container bottom, and in a second
25 switch position guides the exciting light to the bottom of the imaging container.

3. The fluorescent particle imaging device according to claim 1, wherein an exciting light source for side
30 irradiation of the imaging container bottom and an exciting light source for bottom irradiation of the imaging container are provided, and the switching means is used to switch to the exciting light from one of the exciting light sources.